Amendments to the Claims

The listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

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- 1-23 (Cancelled)
- 24. (New) A method of preparing a paint to impart good tint strength and good viscosity stability to the paint, and impart good stain resistance to a paint film formed from the paint, said method comprising: mixing paint formulating ingredients with an aqueous coating composition comprising an anionically stabilized addition polymerized polymeric dispersion polymerized from a carboxylic acid containing ethylenically unsaturated monomer selected from the group consisting of acrylic acid and methacrylic acid, a hydrophobic aromatic ethylenically unsaturated high Tg monomer selected from the group consisting of styrene and alpha methyl styrene, and an $C_2 C_{12}$ acrylate ester monomer, said ethylenically unsaturated monomers being selected such that:
 - (1) their relative proportions satisfy the following Equation:

$$a = \frac{5 + b}{(c + d/2.4)^2}$$

where

$$a = 2 - 13$$

b = weight percent hydrophobic aromatic high Tg monomer,

- c = weight percent acrylic acid,
- d = weight percent methacrylic acid; and
- (2) the polymeric dispersion has a Tg of from -15°C to 30°C.
- 25. (New) The method of Claim 24, wherein the hydrophobic aromatic ethylenically unsaturated monomer is in the range of from 8% to 70%.
- 26. (New) The method of Claim 25, wherein the hydrophobic aromatic ethylenically unsaturated monomer is in the range of from 15% to 50%.
- 27. (New) The method of Claim 24, wherein the hydrophobic aromatic ethylenically unsaturated monomer is styrene.
- 28. (New) The method of Claim 24, wherein a in Equation (I) is in the range of from 2.5 to 9.5.
- 29. (New) The method of Claim 24, wherein the Tg of the polymeric dispersion is from -5°C to 30°C.
- 30. (New) The method of Claim 24, wherein the maximum number average particle size of the polymeric dispersion is 200 nanometers.
- 31. (New) The method of Claim 30, wherein the average particle size of the polymeric dispersion is less than or equal to 150 nanometers.
- 32. (New) The method of Claim 31, wherein the average particle size of the polymeric dispersion is less than or equal to 120 nanometers.

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- 33. (New) A method of providing a substrate coated with a paint film which imparts good stain resistance, said method comprising:
- (a) applying to the substrate a paint prepared by a method comprising preparing a paint to impart good tint strength and good viscosity stability to the paint, and impart good stain resistance to a paint film formed from the paint, said method comprising: mixing paint formulating ingredients with an aqueous coating composition comprising an anionically stabilized addition polymerized polymeric dispersion polymerized from a carboxylic acid containing ethylenically unsaturated monomer selected from the group consisting of acrylic acid and methacrylic acid, a hydrophobic aromatic ethylenically unsaturated high Tg monomer selected from the group consisting of styrene and alpha methyl styrene, and an C₂ C₁₂ acrylate ester monomer, said ethylenically unsaturated monomers being selected such that:
 - (1) their relative proportions satisfy the following Equation:

$$a = \frac{5 + b}{(c + d/2.4)^2}$$

where

a = 2 - 13

b = weight percent hydrophobic aromatic high Tg monomer,

c = weight percent acrylic acid,

d = weight percent methacrylic acid; and

- (2) the polymeric dispersion has a Tg of from -15°C to 30°C; and
- (b) allowing the paint to dry to form the paint film.

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- 34. (New) An anionically stabilised addition polymerised polymeric aqueous dispersion polymerised from a carboxylic acid containing ethylenically unsaturated monomer selected from acrylic acid and methacrylic acid, a hydrophobic aromatic ethylenically unsaturated high Tg monomer selected from styrene and alpha methyl styrene, and a C₂-C₁₂ acrylate ester monomer, said ethlenically unsaturated monomers being selected such that:
 - (1) their relative proportions satisfy the following Equation (1)

$$a = \frac{5+b}{(c+d/2.4)^2}$$
 (I)

where

a = 2 - 13

b = weight percent hydrophobic aromatic high Tg monomer

c = weight percent acrylic acid

d = weight percent methacrylic acid, and

(2) the polymeric dispersion has a Tg of from -15 to 30°C, when used in preparing a paint so as to impart good tint strength and good viscosity stability to the paint, and impart good stain resistance to a paint film formed from the paint.

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35. (New) An aqueous coating composition, comprising: a blend of low Tg and high Tg aqueous polymeric dispersions in a volume ratio of low Tg to high Tg polymer dispersion of from 0.4:1 to 3:1, wherein the polymer dispersion with low Tg has a Tg less than 0°C and the polymer dispersion with high Tg has a Tg of at least 25°C, and wherein the polymer dispersion with a high Tg is an anionically stabilized addition polymerized polymeric dispersion polymerized from a carboxylic acid containing ethylenically unsaturated monomer selected from the group consisting of acrylic acid and methacrylic acid, a hydrophobic aromatic ethylenically unsaturated high Tg monomer selected from the group consisting of styrene, vinyl toluene, and alpha methyl styrene, and a C₂-C₁₂ acrylate ester monomer, whereby the relative proportions of ethylenically unsaturated monomers are selected such that the following Equation is satisfied:

$$a = \frac{5 + b}{(c + d/2.4)^2}$$

where

$$a = 2 - 13$$

b = weight percent hydrophobic aromatic high Tg monomer,

c = weight percent acrylic acid, and

d = weight percent methacrylic acid.

36. (New) The aqueous coating composition of Claim 35, wherein the low Tg polymer dispersion is non-ionically stabilized.

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Application No. 09/942,278 Attorney Docket No. 143628.00002-P1390US00

37. (New) The aqueous coating composition of Claim 35, wherein the low Tg polymer dispersion is an anionically stabilized addition polymerized polymeric dispersion polymerized from a carboxylic acid containing ethylenically unsaturated monomer selected from the group consisting of acrylic acid and methacrylic acid, a hydrophobic aromatic ethylenically unsaturated high Tg monomer selected from the group consisting of styrene, vinyl toluene, and alpha methyl styrene, and a C₂-C₁₂ acrylate ester monomer, such that the relative proportions of ethylenically unsaturated monomers are selected such that the following Equation is satisfied:

$$a = \frac{5 + b}{(c + d/2.4)^2}$$

where

a = 2 - 13

b = weight percent hydrophobic aromatic high Tg monomer,

c = weight percent acrylic acid, and

d = weight percent methacrylic acid.